Express Mail No.: EV336655140US

Title: IMAGE-BASED QUANTITATION 0F MOLECULAR TRANSLOCATION Inventors: Thaddeus C. George et al. Serial No. Docket No.: 120122.406P1

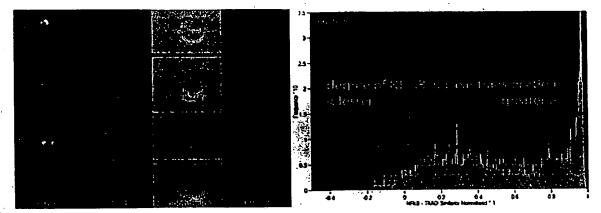
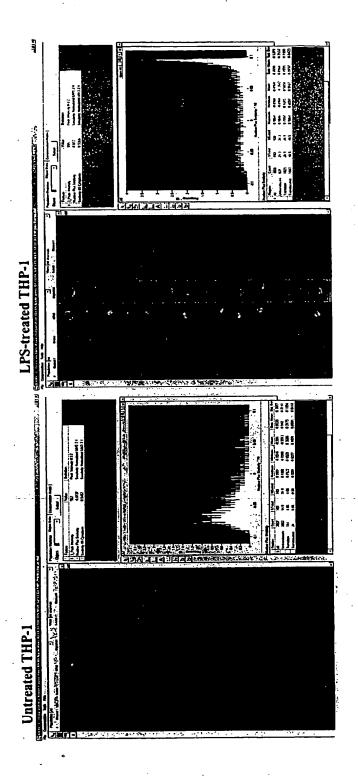
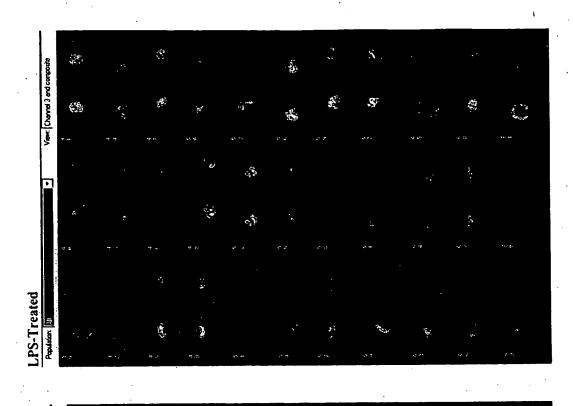


Figure 1. NF-kB Nuclear Translocation in Immune Cells
The data (above left) show cells imaged simultaneously in darkfield, green fluorescence, brightfield, and red fluorescence. The sample consisted of a monocytic cell line stained with an antibody against the NF-kB transcription factor (green) as well as a nuclear stain (red). Cells treated with lipo-polysaccharide (image rows 2-4) exhibit translocation of NF-kB from the cytoplasm to the nucleus while untreated cells lack NF-kB in the nuclear compartment (top row). A statistical analysis of imagery from 6616 cells quantitatively characterizes the degree of NF-kB nuclear translocation in the sample. Amnis' ImageStream platform is the only cell analysis technology that can perform this valuable assay on immune cells in suspension.







THP-1 NFkB/7AAD Composite

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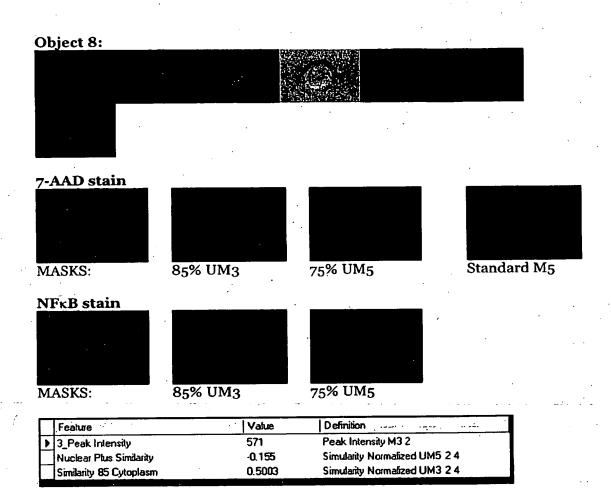
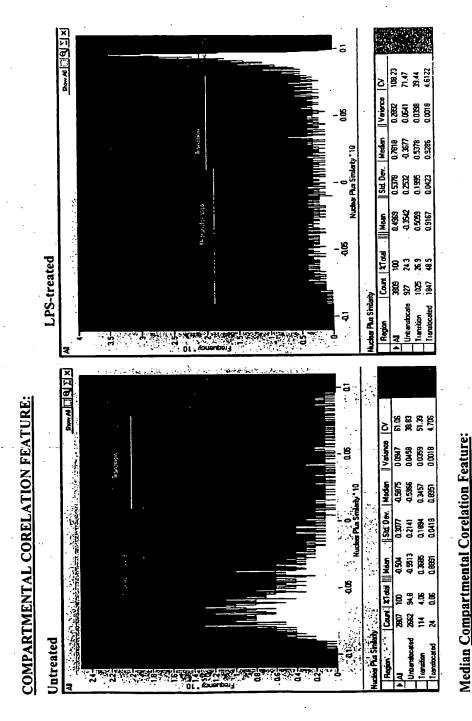


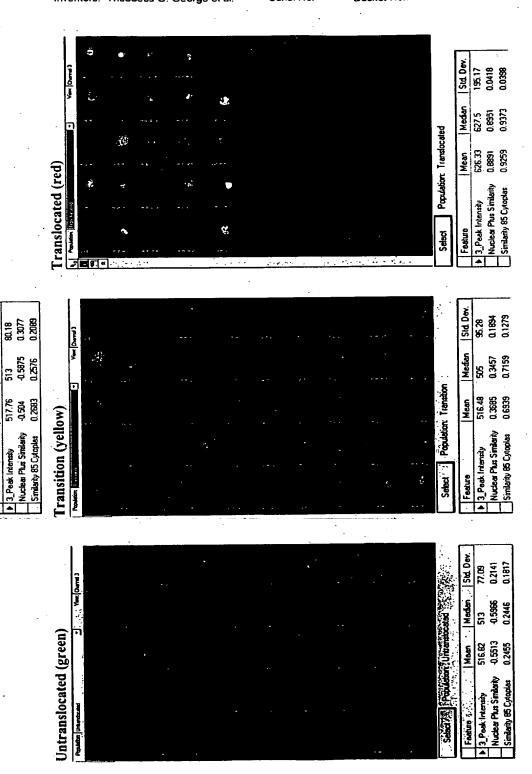
Fig. 4



Translocated = 0.9286 + -0.0423

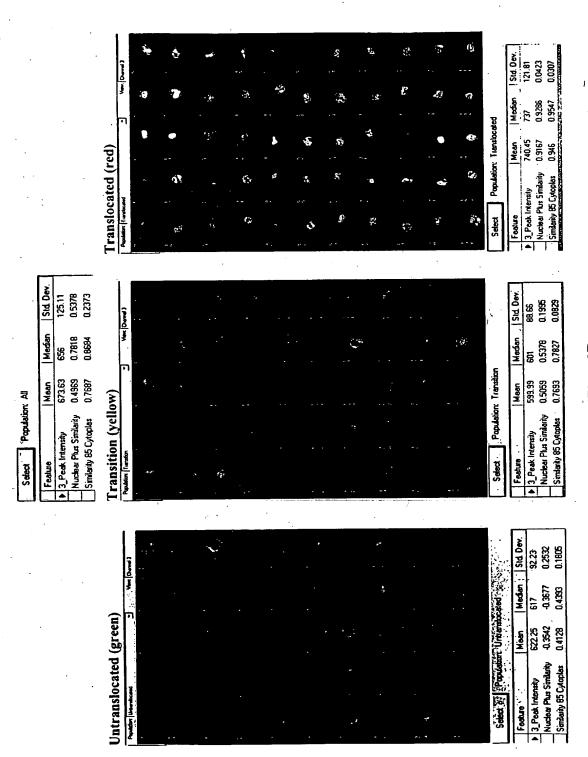
Untranslocated = -0.5966 +/- 0.2141

Difference of 1.5252

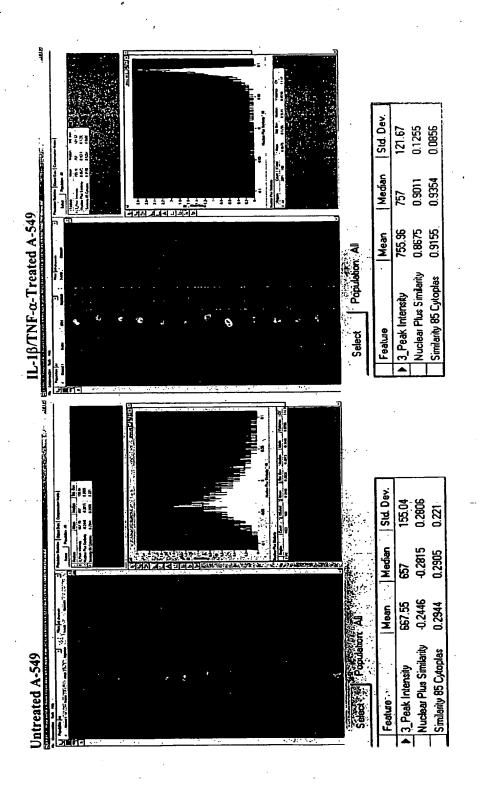


Select Population: All

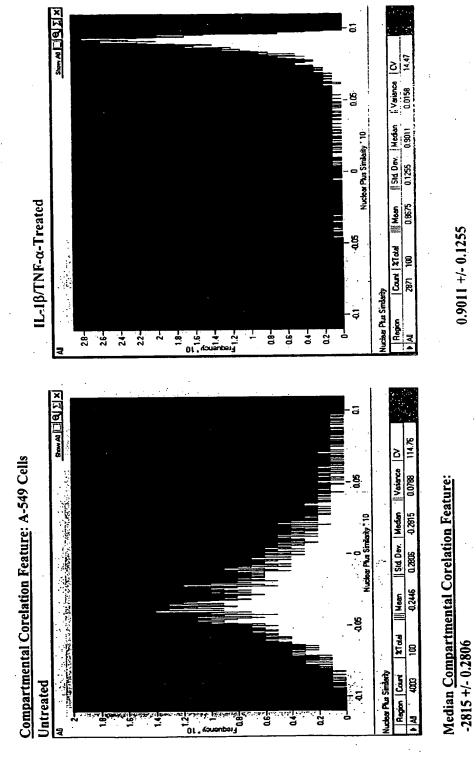
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0.9011 +/- 0.1255

Difference of 1.1826